

REMARKS/ARGUMENTS

Favorable reconsideration of this application, as presently amended and in light of the following discussion, is respectfully requested.

Claims 1, 2, 7-10, 13, 15-21, 24, 26-29, 32, 34-36, 38, 41-43, 45, 47, 49, 52, 54 and 56-61 are pending with Claims 1, 9, 19, 20, 28, 36 and 47 amended and Claims 6, 14, 25, 33, 44 and 55 canceled by the present Amendment.

In the Official Action, Claims 1-2, 20-21, 36 and 47 were rejected under 35 U.S.C. § 102(e) as being anticipated by Parmenter (U.S. Patent No. 6,615,052); Claims 6-7 and 24-26 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Parmenter in view of Chuah et al. (U.S. Patent No. 6,587,672, hereinafter Chuah); Claims 8 and 27 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Parmenter in view of Johansson et al. (U.S. Patent No. 6,804,520, hereinafter Johansson); Claims 9-10, 13-14, 17-18, 37-45, 28-29, 32-33, 49 and 52-56 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Parmenter in view of Toskala et al. (U.S. Patent No. 6,374,118, hereinafter Toskala); Claim 15 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Parmenter in view of Toskala and Chuah; Claim 57 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Parmenter in view of Toskala in view of Blois et al. (U.S. Patent No. 6,389,088, hereinafter Blois); and Claim 19 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Toskala in view of Parmenter.

Applicants acknowledge with appreciation the telephone interview between the Examiner and Applicants' representative on May 10, 2006. During the telephone interview, the Examiner agreed that the application would be in condition for allowance if Applicants incorporate the features of Claim 6 into Claim 1, Claim 14 to Claim 9, Claim 25 into Claims 19 and 20, Claim 33 into Claim 28, Claim 44 into Claim 36, and Claim 55 into Claim 47.

The Examiner acknowledged that the combinations used to reject dependent Claims 6, 14, 25, 33, 44 and 55 were improper.

Claims 1, 9, 19, 20, 28, 36 and 47 are amended as suggested by the Examiner in the telephone interview of May 10, 2006. Accordingly, Applicants submit that the amended claims patentably define over the cited references and are in condition for formal allowance.

Briefly recapitulating, Claim 1 is directed to a transmission power control apparatus for a wireless communication apparatus for reducing a power value of a signal input to a power amplifier to the maximum allowable, input power value of said power amplifier or below, said transmission power control apparatus comprising: (1) a setting part for setting a transmission power upper limit value of a call according to a circuit type of said call, wherein the circuit type includes a packet switching type and a circuit switching type, said transmission power upper limit value comprising a first transmission power upper limit value and a second transmission power upper limit value, wherein the first transmission power upper limit value corresponds to the packet switching type call and the second transmission power upper limit value corresponds to the circuit switching type call, wherein the first transmission power upper limit value is lower than the second transmission power upper limit value; and (2) a power reducing part for reducing transmission power for said call to or below said transmission power upper limit value depending on said call type.

Claim 1 has been amended to clarify that the setting part reduces said first upper limit value by a first predetermined ratio when said over-input to said power amplifier occurs, and said setting part increases said first upper limit value by a second predetermined ratio which is lower than said first predetermined ratio when said over-input to said power amplifier does not occur. No new matter has been added.

Applicants respectfully submit that the rejections of the claims are rendered moot by the present amendment to the independent claims. The cited references, taken individually or in proper combination, do not teach or suggest all of the limitations recited in the claims.

Parmenter is directed to a radio fixing power control algorithm that dynamically adjusts a power output level in each channel of a multichannel mobile system. The power levels of the voice and data channels are preset, and in determining whether a voice or a data call is received, prestored power parameters are looked up for each active transmission channel.¹ In this way, the dynamic aspect of the system in Parmenter allows for the adjustment of the power level in each channel in which the control processor tracks the number and type of active calls and then adjust the output power of each channel transmitted to limit the high power amplifier output power to a predetermined range.

Chuah describes a method for use in a UMTS receiver which includes determining whether the signal received is greater than or equal to a first power threshold value and the signals below an initial threshold value, and informing the transmitter when the signal is greater than or equal to the first power threshold value such that the transmitter can increase a signal strength of the signal by a first predetermined amount and retransmit. In another embodiment a UMTS transmitter increases a signal strength of the signal by a first predetermined amount when informed by the receiver that the signal is greater than or equal to a first power threshold value but below an initial detection threshold value.²

Toskala describes a method of physical channel power control in a radio system. The method includes establishing a physical channel with at least one spreading code, placing at least one service in the physical channel, and performing physical channel power control according to a carrier/interference target set for the physical channel. Then one service is selected from among the active services placed in the physical channel, and the

¹ Parmenter, Abstract.

² Chuah, Abstract.

carrier/interference target of the one selected service is set to lead physical channel power control.³

Blois describes a bit sync search and frame sync search system and method. The bit search is implemented by detecting a predetermined phasing signal which is incorporated in the digital signal and which has a repetitive bit pattern of ones and zeros. The phasing signal is first detected by providing an end phase and quadrature component signal and correlating those signals to provide an output signal indicative of the bit pattern and the phasing signal. After the phasing is provided an oscillator associated with a receiving apparatus is compensated according to the detected phasing signal, a tracking mode is entered, whereby a frame signal is captured and the system generates histograms of data transitions for producing an error signal indicative of the difference of the transmitted clock rate and the sampling portion of the received bit. By adjusting the clock according to the error signal produced by the histogram process one can be assured that the sampling rate at the receiver will occur relatively at the center of each bit to therefore provide reliable decoding or detection of the received digital data signal in the presence of noise.⁴

Johansson describes first and second groups of radio resources allocated to respective first and second mobile radio communication systems. When a block of user information needs to be transmitted that requires an additional amount of radio resources, the first and second mobile radio communication systems are interrupted or their service levels are reduced for a brief time period. At least part of the block of information is transmitted during that time period using at least some of the first and second radio resources allocated for the first and second mobile radio communication systems. After that time period, transmission

³ Toskala, Abstract.

⁴ Blois, Abstract.

of the first and second mobile radio communications is resumed at full or partial service levels.⁵

⁵ Johansson, Abstract.

Accordingly, in view of the present amendment and in light of the previous discussion, Applicants respectfully submit that the present application is in condition for allowance and respectfully request an early and favorable action to that effect.

Respectfully submitted,

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